

Serial No.: 08/881,835

Attorney Docket No: MCS-070-00

IN THE CLAIMS

Please cancel claim 24.

Please amend claims 1, 3, 18, 25, and 31 as follows:

1. (Currently Amended) An automated video production system for online publishing of a lecture, comprising:
 - a camera system that provides multiple camera views of the lecture;
 - a virtual director that uses probabilistic rules that selects to select a current camera view from the multiple camera views and is capable of changing the current camera view by switching between the multiple camera views in response to a triggering event; and
 - a set of expert video production rules that is applied by the virtual director to select the current camera view.
2. (Original) The automated video production system as set forth in claim 1, wherein the set of expert video production rules is applied by the virtual director to determine to which of the multiple camera views to switch.
3. (Currently Amended) The automated video production system as set forth in claim 1, wherein the set of expert video production rules are applied by the virtual director to generate the triggering event and determine ~~to~~ when to switch the current camera view.
4. (Original) The automated video production system as set forth in claim 1, wherein the camera system includes a single camera.
5. (Original) The automated video production system as set forth in claim 1, wherein the camera system includes a plurality of cameras.

Serial No.: 09/681,835

Attorney Docket No: MCS-070-00

6. (Original) The automated video production system as set forth in claim 1, further comprising a virtual cinematographer that controls a camera in tracking an object within the lecture.

7. (Original) The automated video production system as set forth in claim 1, wherein the camera system includes an audience-tracking camera that provides a camera view of an audience.

8. (Original) The automated video production system as set forth in claim 7, further comprising a microphone-array audience tracker that controls the audience-tracking camera in tracking a member of the audience.

9. (Original) The automated video production system as set forth in claim 7, further comprising an audience-tracking status module that provides status information of the audience-tracking camera to the virtual director.

10. (Original) The automated video production system as set forth in claim 9, wherein the status information includes a plurality of possible statuses.

11. (Original) The automated video production system as set forth in claim 1, wherein the camera system includes a lecturer-tracking camera that provides a camera view of a lecturer.

12. (Original) The automated video production system as set forth in claim 11, further comprising a history-based, reduced-motion tracker that controls the lecturer-tracking camera in tracking the lecturer based on a history of the lecturer's movement.

13. (Original) The automated video production system as set forth in claim 11, further comprising a lecturer-tracking status module that provides status information of the lecturer-tracking camera to the virtual director.

Serial No.: 09/681,835

Attorney Docket No: MCS-070-00

14. (Original) The automated video production system as set forth in claim 1, wherein the virtual director includes an event generator that generates the triggering event.

15. (Original) The automated video production system as set forth in claim 14, wherein the event generator further comprises a time transition module that determines when to switch the current camera view.

16. (Original) The automated video production system as set forth in claim 14, wherein the event generator further comprises a location transition module that determines to which of the multiple camera views to switch.

17. (Original) The automated video production system as set forth in claim 16, wherein the location transition module is a probabilistic finite state machine having multiple states.

18. (Currently Amended) A method for automatically producing a video of a lecture for online publishing, comprising:

providing a set of expert video production rules;

capturing the lecture using a camera system that includes multiple camera views; and

using the set of expert video production rules to determine a current camera view from the multiple camera views, when the current camera view should change, and to which of the multiple camera views the current camera view should change based on a probabilistic approach that uses a probabilistic transition matrix constricted by the expert video production rules such that a next current camera view is a weighted random choice.

19. (Original) A computer-readable medium having computer-executable instructions for performing the method recited in claim 18.

20. (Original) The method as set forth in claim 18, wherein the set of expert video production rules are a set of constraints for producing the video.

Serial No.: 09/881,835

Attorney Docket No: MCS-070-00

21. (Original) The method as set forth in claim 18, wherein the set of expert video production rules is obtained by determining rules used by human experts in a video production field.

22. (Original) The method as set forth in claim 18, wherein the current camera view is changed in response to a triggering event.

23. (Original) The method as set forth in claim 22, wherein the triggering event is generated based on the set of expert video production rules.

24. (Canceled)

25. (Currently Amended) The method as set forth in claim 24 18, wherein the probabilistic approach uses a probabilistic finite state machine having multiple states that are fully connected to allow transition from one state to another.

26. (Original) The method as set forth in claim 18, wherein the camera system includes an audience-tracking camera that provides a camera view of an audience of the lecture.

27. (Original) The method as set forth in claim 26, further comprising using the set of expert video production rules to control the audience-tracking camera in tracking members of the audience.

28. (Original) The method as set forth in claim 18, wherein the camera system includes a lecturer-tracking camera.

29. (Original) The method as set forth in claim 28, wherein the lecturer-tracking camera tracks the lecturer using the set of expert video production rules.

Serial No.: 09/881,835

Attorney Docket No: MCS-070-00

30. (Original) The method as set forth in claim 28, wherein the lecturer-tracking camera tracks the lecturer based on a history of the lecturer's movement.

31. (Currently Amended) An automated video production system for capturing images of a scene, comprising:

an audience-tracking camera that provides images of an audience within the scene;

a lecturer-tracking camera that non-intrusively tracks a lecturer within the scene;

a set of expert video production rules containing video production constraints; and

a virtual director module that receives multiple camera views from the audience-tracking camera and the lecturer-tracking camera and use the set of expert video production rules and probabilistic rules to select an a current camera view from the multiple camera views such that the current camera view is a weighted random choice.

32. (Original) The automated video production system as set forth in claim 31, further comprising an overview camera that provides an overview image of the scene.

33. (Original) The automated video production system as set forth in claim 31, wherein the current camera view is capable of changing to one of the multiple camera views in response to a triggering event.

34. (Original) The automated video production system as set forth in claim 33, wherein the set of expert video production rules is used to determine when the triggering event is generated.